

# COURSE DETAIL

## EXPLORING THE BRAIN: HANDS-ON NEUROIMAGING

**Country**

United Kingdom - England

**Host Institution**

University of Sussex

**Program(s)**

Summer in Sussex

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Health Sciences Biological Sciences

**UCEAP Course Number**

130

**UCEAP Course Suffix**

S

**UCEAP Official Title**

EXPLORING THE BRAIN: HANDS-ON NEUROIMAGING

**UCEAP Transcript Title**

NEUROIMAGING

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

This course goes beyond conventional lecture-based instruction and to the heart of the research process. Through hands-on scanning, data analysis, literature exploration, and seminar participation, students learn how MRI and fMRI are used to investigate the human brain – and apply knowledge to design, conduct, and present neuroimaging projects. The course integrates foundational concepts in neuroimaging and clinical neuroscience through hands-on, research-based learning. Through this process, students gain practical experience with MRI hardware and scanning, experimental design, basic image processing, and scientific writing and presentation.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

IS459

### **Host Institution Course Title**

EXPLORING THE BRAIN: HANDS-ON NEUROIMAGING

### **Host Institution Course Details**

<https://www.sussex.ac.uk/study/study-abroad-at-sussex/our-programs/summer-schoo...>

### **Host Institution Campus**

University of Sussex

### **Host Institution Faculty**

International Summer School

### **Host Institution Degree**

### **Host Institution Department**

Neuroscience and Neuroimaging

**Course Last Reviewed**

2026-2027

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